

INTERNATIONAL SEARCH REPORT

Internat. Application No
PCT/IB 03/02011

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C01B33/20 B01J20/10 A01N59/16 A01N59/20 A61L9/01
B01D53/34 B01J39/02 B01J39/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C01B B01J A01N B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, INSPEC, COMPENDEX, CHEM ABS Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 99 27942 A (SHEEN BIOTECHNOLOGY PTY LTD ; RILEY THOMAS V (AU); MYERS CINDY ANNE) 10 June 1999 (1999-06-10)</p> <p>claims 1-15 page 1, line 3 -page 4, line 25</p> <p style="text-align: center;">-/--</p>	<p>1-5,7, 13,19, 21-23, 37,38, 43,44, 49,51,52</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

23 February 2004

Date of mailing of the international search report

04/03/2004

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Internal

Application No

PCT/IB 03/02011

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 92 10292 A (ENGELHARD CORP) 25 June 1992 (1992-06-25) claims 1,2,4-9 page 7, line 6 -page 8, line 4 examples 10-12,15 & US 5 053 139 A 1 October 1991 (1991-10-01) cited in the application ---	1,2,4,6, 9,14,15, 22,35, 36,41,42
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; KOMATSU, YOSHINOBU ET AL: "Amorphous copper silicates, their manufacture, and their uses in antibacterial agents and antifouling coatings" retrieved from STN Database accession no. 126:33988 CA XP002271162 abstract ---	1-5,7, 13,14, 16,19, 21,23, 37,38, 43,44, 49-52
A	& JP 08 283013 A (MIZUSAWA INDUSTRIAL CHEM, JAPAN) 29 October 1996 (1996-10-29) ---	10-12
X	US 6 284 364 B1 (NODE SHUNSAKU ET AL) 4 September 2001 (2001-09-04) claim 1 column 3, line 15 -column 7, line 40 example 6 table 1 abstract ---	1-3,5,7, 10, 14-21, 23, 25-34, 37,38, 43,44, 49-53
X	DATABASE WPI Section Ch, Week 199423 Derwent Publications Ltd., London, GB; Class E36, AN 1994-186002 XP002271163 & JP 06 121926 A (NISSAN MOTOR CO LTD), 6 May 1994 (1994-05-06) abstract ---	1,8,16, 19,24, 39,40, 45,46, 49-52
X	US 3 836 633 A (BESCHKE H) 17 September 1974 (1974-09-17) the whole document ---	1-5,13, 49,51

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 03 089112 A (HUGHES KENNETH D ;WATERVISIONS INTERNATIONAL INC (US)) 30 October 2003 (2003-10-30) claims 1,2,37,38,46-52,94-108 page 1, line 6 - line 12 page 5, line 21 -page 6, line 2 page 14, line 35 -page 16, line 20 -----	1,6-12, 14-24, 37-53
E	WO 03 075664 A (LANGLEY TOM ANTHONY ;CONVE LTD (AU); SHEEN RONALD JAMES (AU)) 18 September 2003 (2003-09-18) claims 1-13,23,31 -----	1,2,7, 10,37, 38,49-52

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9927942	A	10-06-1999	AU 1647499 A WO 9927942 A1	16-06-1999 10-06-1999
WO 9210292	A	25-06-1992	US 5053139 A AT 170776 T AU 8915691 A CA 2097728 A1 DE 69130179 D1 DE 69130179 T2 EP 0561998 A1 JP 6504714 T JP 3199733 B2 KR 167368 B1 MX 9100320 A1 WO 9210292 A1 ZA 9105661 A	01-10-1991 15-09-1998 08-07-1992 05-06-1992 15-10-1998 20-05-1999 29-09-1993 02-06-1994 20-08-2001 15-01-1999 10-08-1992 25-06-1992 27-05-1992
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JP 6121926	A	06-05-1994	NONE	
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WO 03075664	A	18-09-2003	WO 03075664 A1	18-09-2003

VIII-2-1	Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name: \	in relation to this international application RAJU, Kanumuru, Rahul is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1 (i)		PRASAD, Yandapalli, Durga of Yagahanumantha Nagaram Rudraram Village Medak India is the inventor of the subject matter for which protection is sought by way of this international application
VIII-2-1 (iv)		an assignment from KANUMURU RAHUL RAJU to KANUMURU RAHUL RAJU, dated 12 May 2003 (12.05.2003)
VIII-2-1 (ix)	This declaration is made for the purposes of:	all designations except the designation of the United States of America